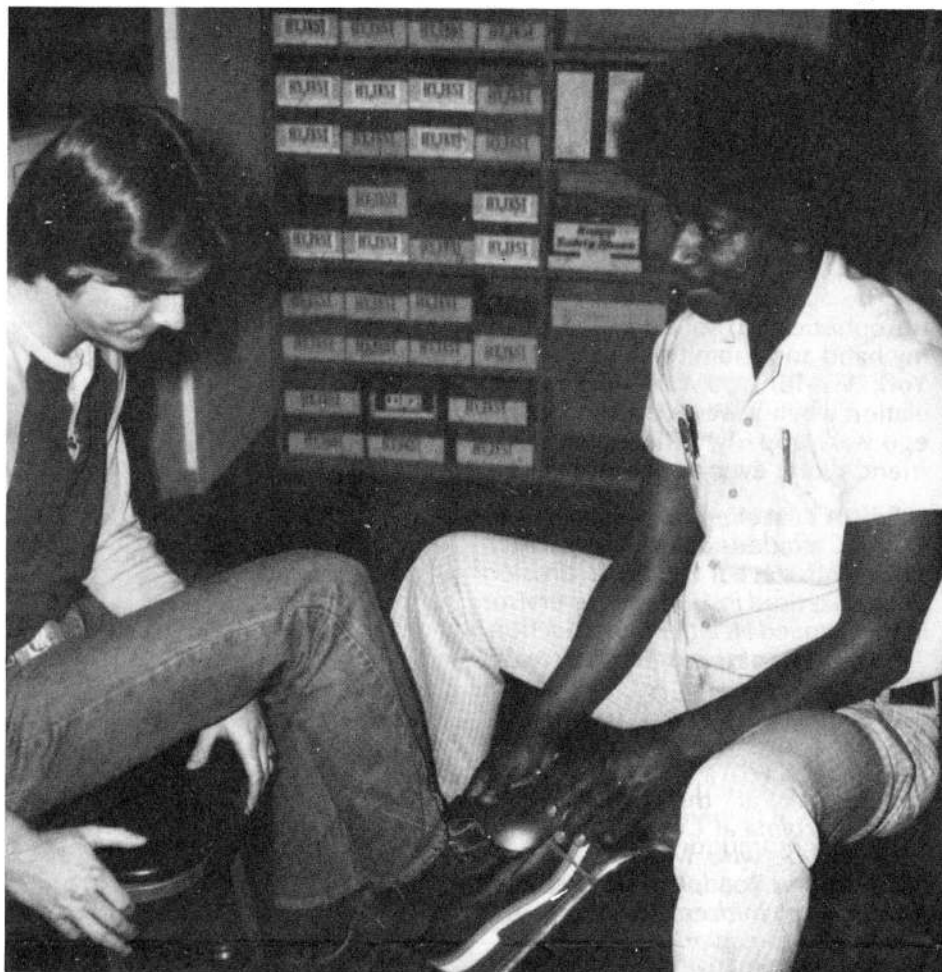


## All four plants earn plaudits for safe operations



**SAFETY STEP**—Dean Thomas, left, is fitted for a pair of safety shoes at the Paducah Plant by Otis Tittsworth. Safe footwear is only one of the many steps taken which enables record-breaking safety records.

High accolades were earned by the four Nuclear Division plants in 1978 for safety performances by all employees. The awards are Union Carbide Corporation's Distinguished Safety Performance Award; the Department of Energy's Award of Excellence (its highest) to the three Oak Ridge Plants and the Award of Achievement to the Paducah Plant; and the National Safety Council's Award of Honor. The corporate awards, as well as those of the NSC, are their highest.

UCC's award went to ORGDP for a total of 8,037,726 employee-hours worked without a disabling injury; to ORNL for 6,041,210 employee-hours; to the Paducah plant for 4,820,610 employee-hours; and to the Y-12 Plant for 8,380,453 employee-hours. (Y-12's record extends into 1979, accumulating a total of 10,219,000 employee hours as of March 1, 1979.)

Twelve disabling occupational injuries were incurred during the year (five at ORGDP; three at ORNL; one at Paducah; and three at Y-12). This made a disabling injury frequency rate of 0.33. (This is defined as the number of disabling injuries sustained for every million employee hours worked.) Occupational disabling injury frequency rates will be discontinued for 1979, and the new computations will be made on the number of injury/illness cases per 200,000 employee hours. The new basis is called lost workday case incidence rate.

The most serious of the 12 occupational injuries was at ORGDP in which an employee's hand was caught and pulled between the rolls of a bending machine, causing severe hand and finger injuries. The primary cause of injuries was falls due to unsafe acts in which six employees suffered arm, back and leg injuries. Two injury cases resulted from falling objects. An injury occurred when an employee's hand was caught in a conveyor. An employee pushed his hand through a glass paneled door

and another employee suffered multiple injuries when he was struck by a backing vehicle.

Off-the-job accidents continue to be a concern at all four plants, as 352 employees experienced lost-time mishaps away from the job. Three of these were automobile fatalities. Of the 352 accidents, 143 occurred in the homes, 123 in transportation, and 85 in public mishaps. A total of 6,822 employee days were lost as a result of off-the-job disabling injuries.

During this month, employees in the four plants will receive an award selection booklet containing pictures and descriptions of merchandise items available as incentives for safe working habits. Selection cards are attached to the covers of the booklets, and should be returned to the supervisor within a week of receipt. The awards will be shipped by the seller to the employee's home during April.

### Other serious injuries

Meanwhile, plaudits from managers of the Nuclear Division plants went to all employees. "Although our performance was commendable, three disabling injuries occurred during the year, and 75 nondisabling, but serious, injuries occurred on the job. We should not be satisfied as long as any injuries occur, especially those that are disabling or otherwise serious; and I am sure you share this concern. Therefore, it is a challenge for all of us to make this year even safer," Jack M. Case, manager of the Y-12 Plant, told employees.

ORGDP set a new safety record for the year, operating 8,037,726 employee-hours without a lost-time injury, which was almost 2,000,000 hours better than the record set the previous year. Both Robert A. Winkel, plant manager, and Kenneth W. Sommerfeld, deputy plant manager, attributed the accomplishment to employee participation, involvement and dedication to making the safety program work.

### Extra efforts

Some of the more recent activities that have played an important role in reducing injuries at ORGDP include the plant appearance program; an expanded safety library which

(Please see page 8)

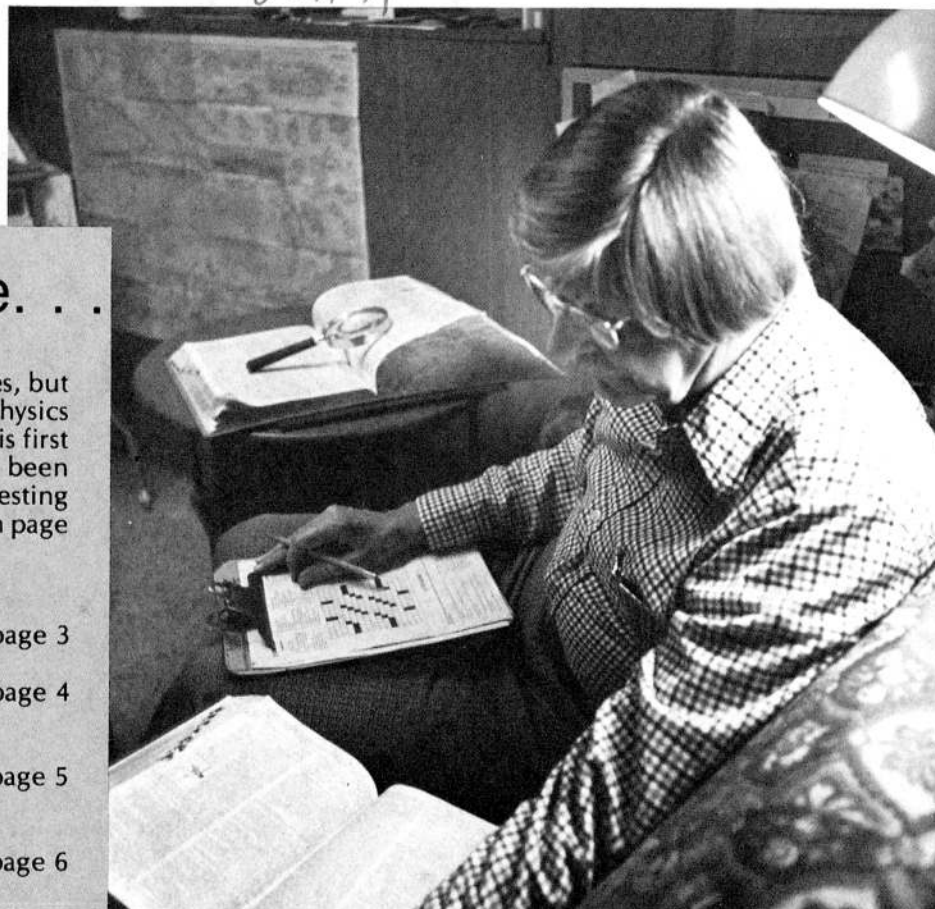
## Corporate world of Union Carbide. . .

A NET INCOME OF \$394.3 million, two percent above that in 1977, was released recently by Union Carbide Corporation. Income per share in 1978, based on a larger number of shares outstanding, was \$6.09, compared to \$6.05 for the previous year. Net sales were \$7.87 billion, compared to 1977's sales of \$7.04 billion.

The increase in sales reflected strong gains in the Gases and Related Products segment and the Metals and

Carbons segment, both of which were up 14 percent over 1977. Sales of Batteries and Home and Automotive Products segment increased 13 percent.

0671-79



## Inside this issue. . .

A lot of us work crossword puzzles, but Hume Craft, a retired ORNL Health Physics employee, writes them! Craft sold his first puzzle 50 years ago for \$5 and has been selling them ever since. His interesting "enjoying the leisure life" story is on page 2.

Other features:

- Question Box..... page 3
- Dr. Lincoln ..... page 4
- Environmental Sciences building dedication ..... page 5
- Bowling tournament wrap-up..... page 6



## Enjoying the leisure life. . .

# More than 5,000 crossword puzzles to his credit; still going strong!

### As told by Hume R. Craft

"In 1927, I sold my first crossword puzzle for \$5 to the **New York World**, an old Pulitzer paper no longer in circulation," said Hume R. Craft, who worked 30 years in ORNL's Health Physics Division before retiring in 1975.

*'When I like to do something, I try to become more proficient in it all the time.'*

"When I like to do something, I try to become more proficient in it all the time." Now he has more than 5,000 crossword puzzles to his credit.

Craft's puzzles have been published by the **New York Times**, **Dell Puzzles**, **Los Angeles Times Syndicate**, **National Observer**, **Chicago Tribune/New York News Syndicate** and **Herald Tribune**. In a few months, Craft will have another publication to add to the list—the **ORNL Review**. The spring edition of the **Review** will feature a puzzle by Craft on the subject of coal processing.

"Bobby Lyon (**Review** editor) just furnished the subject and the terms,

and I cranked out a puzzle," said Craft. "For most puzzles, I usually have to come up with the subject myself and do my own researching for terms."

One "must" for a maker of crossword puzzles is a fully equipped, up-to-date research library. Craft has more than 500 reference books in his collection including: several sets of regular encyclopedias and specialized volumes on animals, famous people, cliches, idioms, holidays, colors, comics, etc. He has several English dictionaries as well as those in the Romance languages, an old Sears & Roebuck catalog, and books devoted especially to the art of word puzzles.

His "staff" consists of his wife, Mary Kate, who does much of the spade work—gathering terms, definitions and typing the final product. At least three hours of every morning is spent working. "If I get the spirit, however, I might work all day," says Craft.

*'Defining a term is the most important aspect of the puzzle. . . determines the level of difficulty.'*

"Defining a term is the most important aspect of the puzzle, since

this determines the level of difficulty. For example, 'cat' could be defined straightforwardly as 'feline' or more subtly as 'alley frequenter.' "

Craft got started with his hobby as a high school student in South Carolina, where he played chess and worked puzzles with an older friend. In 1927, crossword puzzles were a relatively new invention; the first one to be published was in 1921 by Arthur Wynne.

"The first puzzles were relatively unsophisticated, so I decided to try my hand and submit one to the **New York World**. You can imagine my elation when it was accepted, but my ego was properly deflated when my friend didn't even notice my byline!"

**Editor's note**—Hume R. Craft joined Carbide as a health physicist in 1945, and stayed with that division until he retired in 1975 as a supervisor in the Applied Health Physics Section.

A member of the American Health Physics Society, he received a BA degree in English in 1933 from Lenoir Rhyne College, Hickory, NC, and did graduate work in industrial engineering at the University of North Carolina at Chapel Hill.

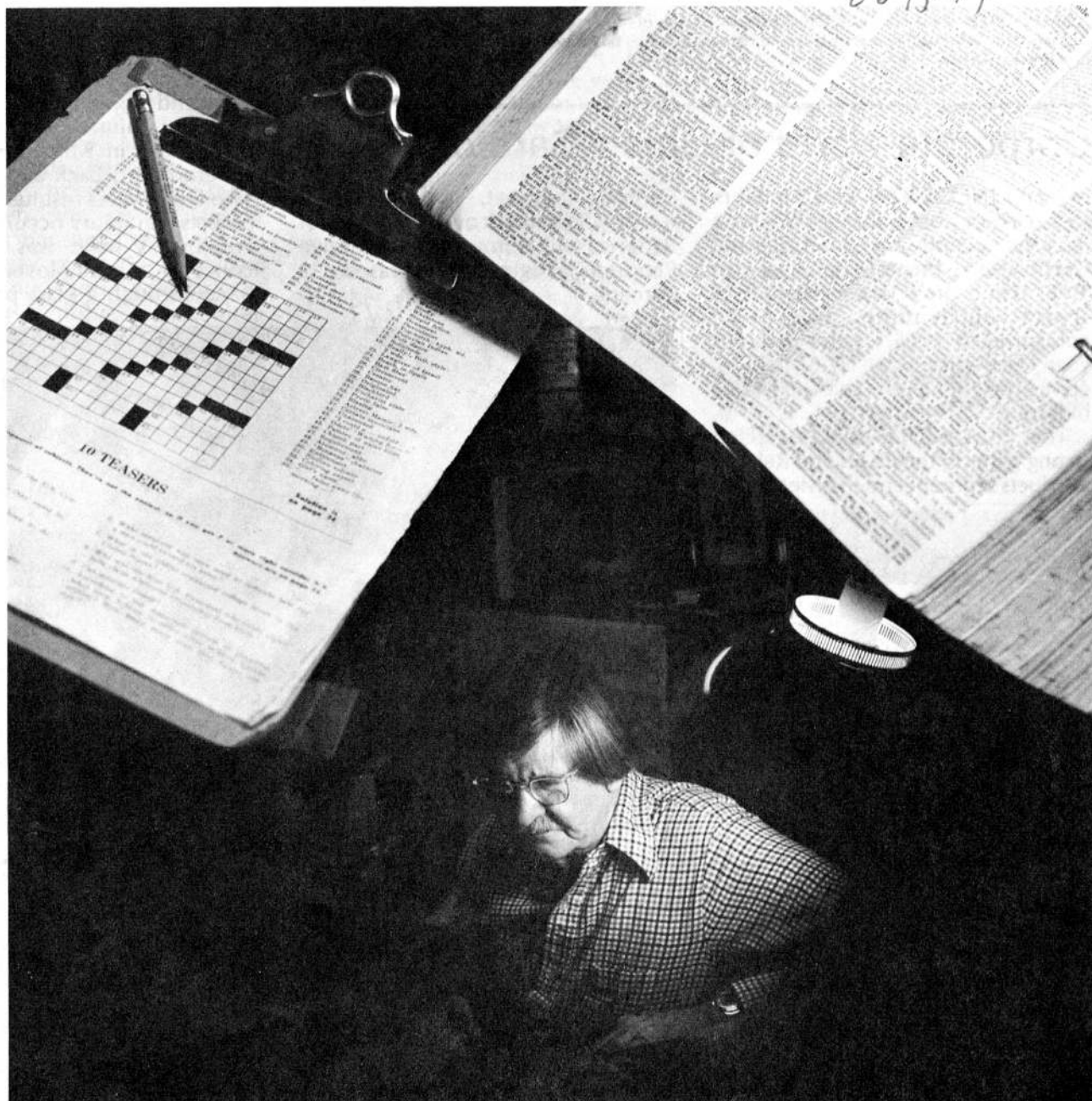
He and his wife, Mary Kate, live at 103 Verbena Road, Oak Ridge. They have two children (Michael and Steve) and four grandchildren.



More than 500 reference books make up his library



Craft and 'staff,' his wife, Mary Kate





## question box. . .

If you have questions on company policy, write the editor, **Nuclear Division News** (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

### Falsifying time cards

**QUESTION:** During the snow storms last winter, some employees were told by their supervisors to record time they were tardy, or even a day missed, as time worked. I thought such time had to be shown as personal leave, with or without pay. What is the policy? What is the penalty for falsifying time cards?

**ANSWER:** When inclement weather and resulting traffic problems cause an employee to report late for his/her regularly scheduled shift, the absence should be recorded as personal leave (with or without pay) or as unexcused. If as much as a half day is involved or if an employee would prefer not to come to work at all, at times vacation may be requested and granted. Individual determinations are made depending upon whether or not a reasonable effort was made to report to work at the start of the scheduled work period, the employee's previous record, vacation eligibility, etc.

All nonexempt employees (weekly and hourly) must have all their absences recorded on their time distribution cards. This requirement includes absences as small as one-tenth of an hour. Absences of exempt employees must be reported if the absence exceeds one-half day (four hours).

Intentional falsification of time cards is a very serious violation of Company rules and can result in termination.

### Calorie count—ORNL

**QUESTION:** A great number of ORNLers are delighted with the calorie count in the Cafeteria. How are these counts derived and who is responsible?

**ANSWER:** The ORNL Cafeteria management appreciates your favorable comment. Dee Fout (A.D.A.), a consultant with the Health Division, along with ORNL's Food Service Manager, Howard Lee, collaborated in this effort. They are also responsible for the designation of the cholesterol and triglyceride information presented. The estimated caloric values are based on recipes used at the ORNL Cafeteria and information derived from the following textbooks:

**Food Values of Portions Commonly Used,**  
by Bowes & Church

and

**Handbook of the Nutritional Contents of Food,**  
Prepared for the U.S.  
Department of Agriculture.

### Credit union practices

**QUESTION:** What is the reasoning behind the Y-12 Credit Union merchandising goods? If a person wants these things, they could probably find them at lower prices by comparative shopping.

**ANSWER:** Your question should have been directed to the Y-12 Credit Union since it is run by its Board of Directors, not by Union Carbide. We did, however, contact Y-12 Credit Union management on your behalf and were told that the Credit Union has received more negative than positive comments regarding their merchandising program, which was intended as a service to the members. As a result, the Board of Directors has taken action to eliminate mailing merchandising lists to the membership.

## Jasny, Domm glean honors during Engineers' Week

George R. Jasny, director of engineering, and Terry C. Domm, a mechanical engineer at ORGDP, were among engineers who received awards during the Engineers' Week Inaugural Luncheon February 20 at the Hyatt Regency Hotel, Knoxville. The president of the Oak Ridge Chapter, Tennessee Society of Professional Engineers, Jim Beavers, presented the Chapter's Outstanding Service Award to Jasny and the Young Engineer of the Year Award to Domm at the Tuesday luncheon which kicked off National Engineers' Week, 1979.

Each year, the Oak Ridge Chapter, TSPE, presents the above awards to members who meet selection criteria. In presenting the Outstanding Service Award, Beavers cited Jasny's contribution to the engineering profession as well as his participation in civic affairs in Oak Ridge. Jasny has almost 1300 employees under his direction at Y-12, ORNL, and ORGDP, of which 750 are managerial and professional, 360 technicians, and 170 clerical.

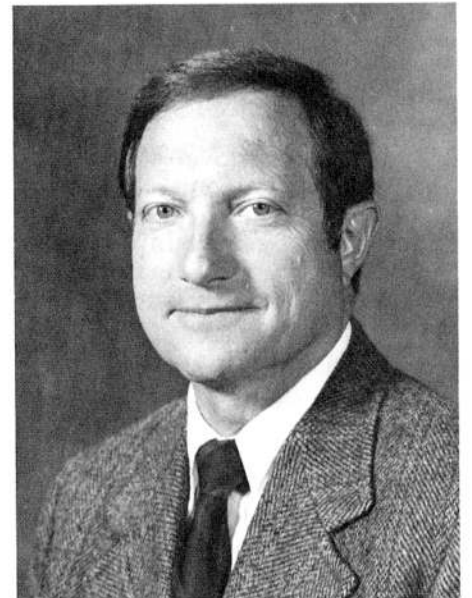
Jasny is a chemical engineer, having graduated from the University of Washington with a BS and from MIT with an MS. He is a member of the American Institute of Chemical Engineers and both the National and Tennessee Societies of Professional Engineers. He is also a registered Professional Engineer in Tennessee.

In January 1979, Jasny served as a member of a select group of industrial leaders on a special workshop on education for industrial needs. He was chairman of the annual WATtec Conference in 1978. At Union Carbide, Jasny has stressed the professional development of engineers through formal courses and registration as professional engineers.

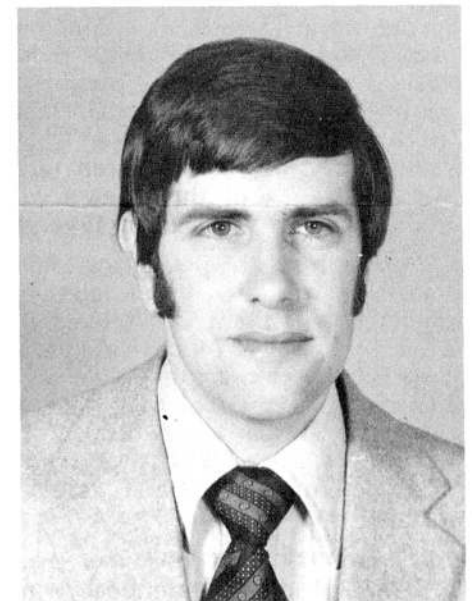
Jasny served on the Oak Ridge Industrial Development Board for 11 years, as chairman of the Utility District Board of Commissioners and as a member of the Advisory Committee for Financial Assistance. He is also on the Board of Trustees for Oak Ridge Hospital and served two years as chairman.

Domm's performance as an engineer and his involvement in the professional aspects of engineering earned him the Young Engineer of the Year Award. He is a mechanical engineer at ORGDP, and is at present the principal engineer on a \$20 million project to provide test facilities for equipment related to the Gas Centrifuge Enrichment Plant to be built at Portsmouth, Ohio.

Domm is a graduate of Georgia Tech and holds a BS and MS in mechanical engineering. He is a



George R. Jasny



Terry C. Domm

member of the American Society of Mechanical Engineers, and is active in both the National and Tennessee Societies of Professional Engineers. Locally, Domm is treasurer-elect of TSPE for 1979, chairman of the Professional Engineers in Industry Section, and a registered Professional Engineer in Tennessee.

## NUCLEAR DIVISION NEWS

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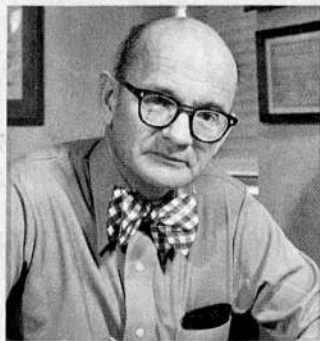


Member,  
INTERNATIONAL  
ASSOCIATION  
OF BUSINESS  
COMMUNICATORS



**WARM VIEW OF A COLD JOB**—Most Nuclear Division employees are ready to exchange ice scrapers and snow shovels for tennis rackets and garden hoes.





## What causes diabetes?

by T. A. Lincoln, M.D.

A few years ago, diabetes was thought to be primarily a genetic disease in children and, in adults, one which was frequently precipitated by obesity. Recent research makes such a view a gross oversimplification. Diabetes is not one disease but several diseases probably with different causes. Young diabetics who are worried that their children may inherit their disease should be greatly encouraged by recent studies.

The urgent need for better information on what causes diabetes is apparent when one considers the steadily increasing size of the diabetic population. It has been estimated that there are four to five million known diabetics in the United States and approximately an equal number with mild unknown disease. The American Diabetes Association has reported that the incidence of diabetes is increasing at about six percent per year. Some of the increase in recent years is probably due to widespread routine testing in hospitals and industry, yet the increase is of concern because, at the current rate, the prevalence of the disease will double approximately every 15 years.

Although many physicians claim that there is little value in detecting diabetes in patients who have no symptoms, there is much evidence to the contrary. A persistently elevated blood sugar, the hallmark sign of diabetes, is clearly a risk factor in coronary heart disease and atherosclerotic peripheral vascular disease.

### Genetic mechanisms

Several studies of identical twins have shown that in only about half the cases do both twins develop the disease when it is insulin-dependent. This type of diabetes is also called juvenile-onset diabetes. The peak age of onset is between 12 and 14 years of age. When it begins, symptoms often develop rapidly and dramatically. The patients are thin and they can only be treated by daily injections of insulin.

In a high percentage of the cases both twins had diabetes when identical twins with maturity-onset diabetes were examined. This type most often develops after age 50, occurs typically in the obese, is usually insidious in onset and frequently does not have significant symptoms. It would appear that juvenile-onset diabetes, which used to be thought to be most likely genetic, is often not and maturity-onset diabetes, which was thought less likely to be genetic, often is.

### Immune mechanisms

Immune mechanisms may be important. Antibodies to the insulin-producing beta cells of the pancreas are found in 65 to 85 percent of cases at the time of onset of insulin-dependent diabetes. After three years, however, only 20 percent of

patients still have them. Often insulin-dependent diabetics have few beta cells left after three years so that may be one reason why the antibody often disappears. Other immune mechanisms have also been implicated. Fully understanding the role of autoimmune (reaction of self against self) mechanisms in the production of diabetes will take years of additional research.

### Infectious mechanisms

Infection appears to be an important underlying cause in insulin-dependent diabetes. There often appears to be a seasonal onset in the late summer, fall and winter with relatively few cases in the spring and early summer. This evidence suggests a relationship to some seasonal virus infection. It has been shown to follow mumps and rubella (German) measles. An animal model has been developed in which a Coxsackievirus can be made to induce diabetes. Whether human cases are ever the delayed result of a human infection with a similar virus is not known.

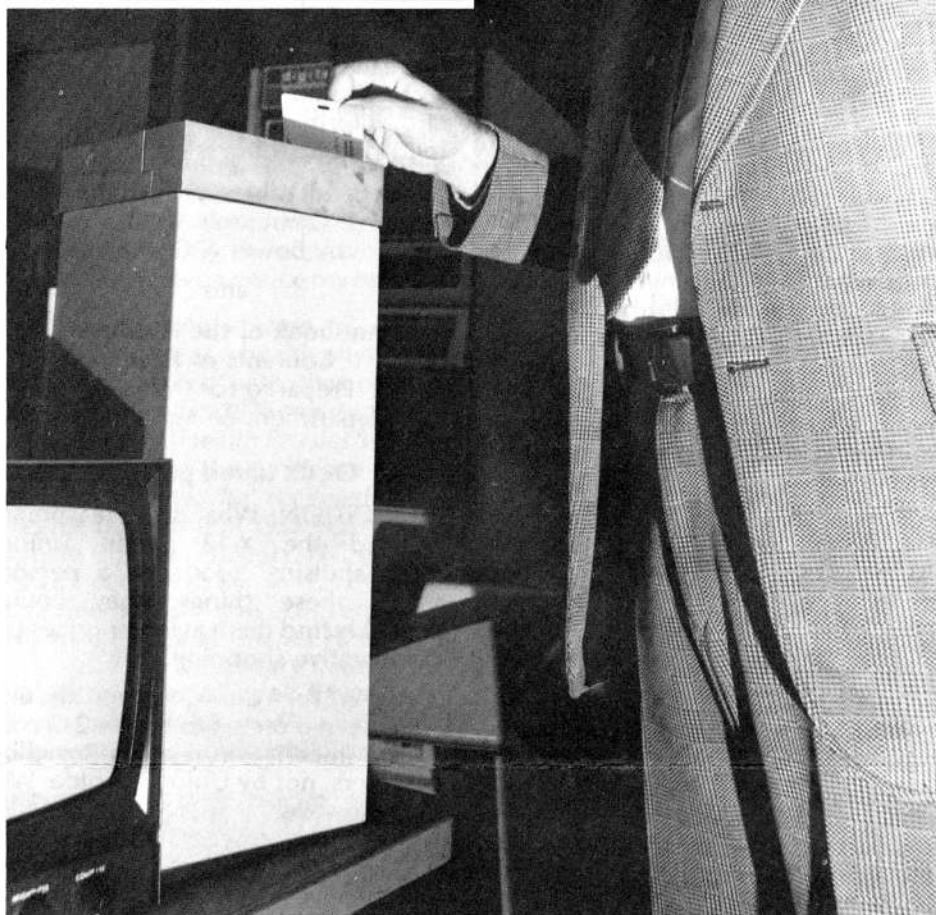
### Chemical mechanisms

There are a number of chemicals which can damage the beta cells or can predispose people to diabetes. Many of these are commonly used drugs. A rodenticide has caused diabetes in 20 cases of accidental or suicidal intake during the past two years.

To summarize, diabetes is probably only a "clinical entity" in which failure of the beta cells in the pancreas to produce enough insulin is the single most distinguishing feature. In maturity-onset diabetes, this defect may only be relative and related to a diminished effectiveness of the insulin produced. There appears to be a strong genetic component in maturity-onset diabetes. Environmental factors also are extremely important. The chance of diabetes developing in overweight people doubles with every 20 percent of excess weight. It may largely mean that due to a genetic weakness, the pancreas can not respond to the tremendous burden placed upon it by obesity.

In many young people, the beta cells may have been injured by infectious or chemical insults. As a consequence, the beta cells are altered so they become looked upon by the body's immune system as "foreign" and subsequently destroyed.

Young insulin-dependent diabetics who do not have a markedly positive family history of diabetes probably need have little hesitation in having children. Maturity-onset diabetics should caution their relatives to be tested periodically and above all else, not to get fat. As understanding of causative mechanisms improves, diabetes may some day become a truly preventable disease.



DRY RUN—Carson Baldwin, ORGDP Security, checks out the new badge reader, which was fabricated by ORNL's Instrumentation and Controls Division.

## Pilot test of new badge system begins at Portal 9, ORGDP

Preparations are underway for a pilot test of the Nuclear Division's new badge system that will go into effect next year. The test, which will begin in early March, will involve the 225 ORGDP shift workers currently badged at Portal 9.

Robert E. Tharp, who heads the security department at ORGDP, says the test will run for about 60 days and, if everything is successful, a more extensive test may be conducted at Portal 4 where some 2,000 employees are badged.

The Portal 9 test, according to Tharp, will not utilize the new color photographs that are now being made; however, the basic identification features will be the same. Portal 9 employees will exchange their current supplemental badges for horizontal test badges with black and white photographs.

An employee, upon entering the portal, will run the badge which has been electronically coded, through a reader that is connected to a computer at the plant.

The computer is programmed to accept only certain badges at certain portals. As the badge passes through the reader, the employee's name will be displayed indicating access authorization. An incorrect read of the badge results in the words "Try again," on the reader. The employee

will then hand the badge to the guard for a visual identification.

All Q-cleared Nuclear Division employees in 1980 will have blue badges with an add-on health physics monitor. The employee will exchange the health-physics monitor every 12 months. The badge can be used at any plant and at multiple portals so long as the computer at each plant has been programmed to accept the badge.

Tharp expects there will be some "shakedown problems" with the Portal 9 test, but the problems should be ironed out for the test later this spring at Portal 4.

## patents granted. . .

To Robert L. Brown, ORNL, for "Winding a Multi-Pancake Magnet from a Continuous Conductor."



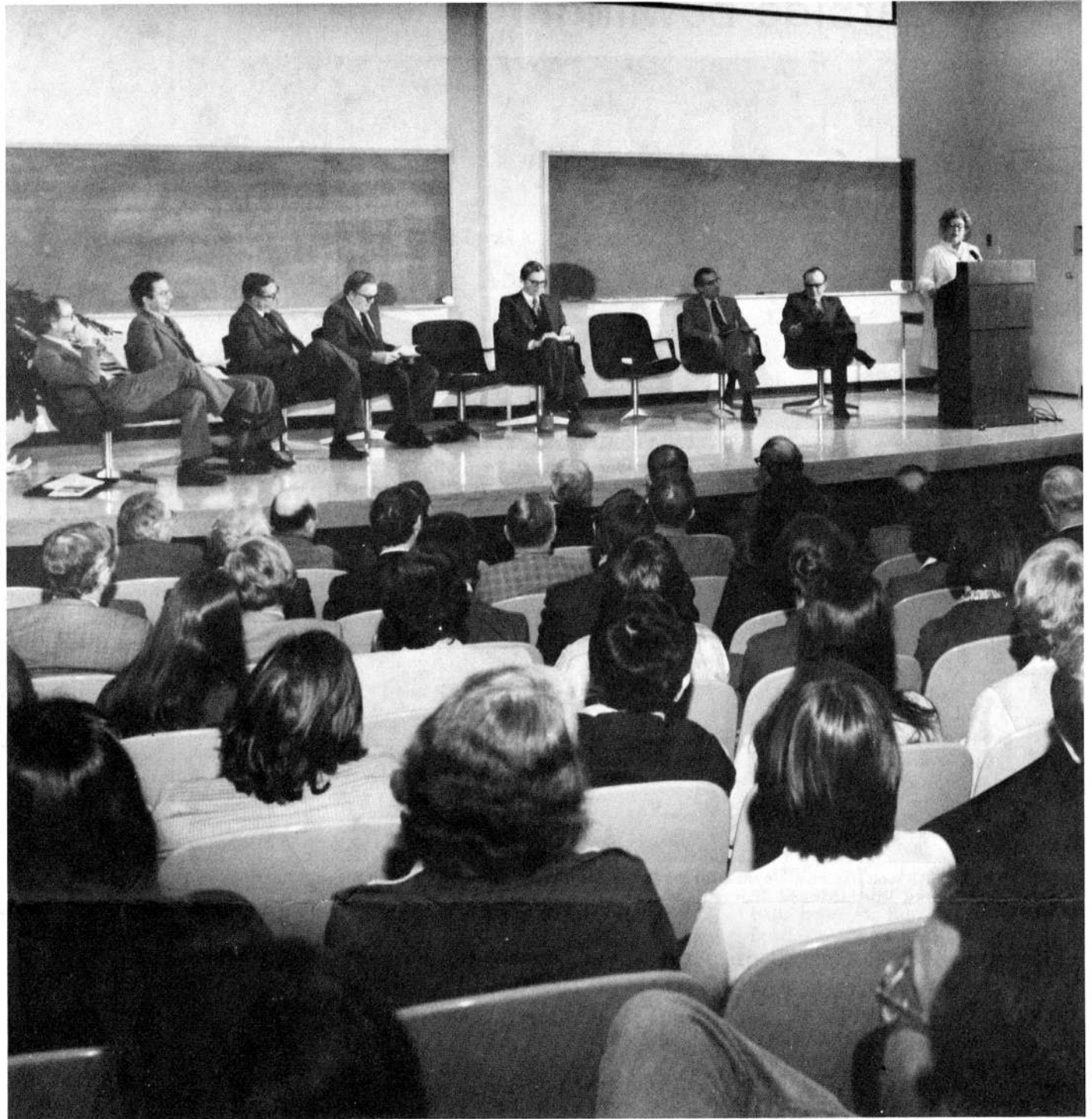
## Environmental Sciences Laboratory, DOE first, dedicated in two-day February program



**Ruth C. Clusen,**  
assistant secretary for  
environment, DOE

"Dedication of the new Environmental Sciences Laboratory provides the occasion to recognize the important role of Oak Ridge National Laboratory in protecting the environment while attaining solutions to our energy needs. Designed and constructed, as it is, for significant reduction in energy consumption, the new facility also captures the spirit of a parallel national commitment to reduce energy demand through improved efficiency. As we move forward to increase energy production from both conventional and new energy sources, the exceptional skills, talents and facilities of the Environmental Sciences Division of ORNL will continue as a valuable asset to DOE in achieving both energy and environmental objectives which must remain inseparable."

*Ruth C. Clusen*



**DEDICATORY REMARKS**—From left, Chester R. Richmond, ORNL associate director; Stephen R. Reznick, acting deputy assistant administrator for energy, minerals and industry, Environmental Protection Agency; Roger F. Hibbs, President, Nuclear Division of Union Carbide; Robert S. Hart, director of the Oak Ridge Operations of the Department of Energy; Herman Postma, ORNL director; Robert Rabin, research associate, National Science Foundation; and Stanley I. Auerbach, director of the Environmental Sciences Division, hear Ruth C. Clusen, assistant secretary for environment, Department of Energy, dedicate the Environmental Sciences Laboratory on February 26.



0180-79



# recreationotes. . .

## Carbide bowling. . .



PINTOPPERS came out on top at the Men's Team-Scratch event. From left: John Peer, Kyle Johnson, Renchel Lowery, Elmer Johnson and Sewell Brown.



CITY SLICKERS won Handicap trophies for the Men's Team event. From left: D. Walt Brown, Walt Rule, John Balanetsky, Don Luigs and Charles Hensley.

The following Nuclear Division employees took top honors in the Team and Doubles events of the 1979 All-Carbide Mixed Bowling Tournament.

Joey Collins and Ray Smith put the winning combination together to win the Men's Doubles event. They rolled a 1172/1289-series winning first place money and the scratch trophies. Ernest Ely and Clon Felker won handicap trophies and second place with a 1284.

Linda Burnett and Barbara Jeffers from the Family Mixed League won the Women's Doubles event with a 1272, receiving top money and handicap trophies. Margaret Duff and Jennie Saffell won the scratch trophies and second place money, rolling a 1101/1245.

The Pintoppers won the Men's Team top honors with a 2787 scratch/2991 handicap series. They received the high scratch trophies plus top money for this event. Team members consisted of Elmer H.

Johnson, John Peer, Sewell Brown, Kyle Johnson and Renchel Lowery. The City Slickers from the K-25 Tuesday Men's League won second place money and the high handicap trophy rolling a 2985. The City Slickers were J. D. Luigs, L. C. Hensley, John Balanetsky, D. W. Brown and W. S. Rule Jr.

In the Women's Team event, the Payoffs #2 from the ORGDP Women's League took top honors, rolling a 3038 handicap series. They were the only team to roll a 3000 series during the tournament. Payoff members include: Louise Boone, Stephanie Livesey, Lois Alley, Louise Simmons and Helen Hobson. The Out-of-Towners, also from the ORGDP Women's League, won second place with a 2943. The Strike-N-Spare team won high scratch trophies for a 2540 series.



STRIKE-N-SPARE'S won the Women's Team-Scratch event. From left to right: Jennie Saffell, Margaret Duff, Mary Goldberg, Janis Huff and Dot Griffith.



Saffell Duff  
Women's Doubles-Scratch



PAYOFFS NO. 2 took top honors in the Women's Team-Handicap event. From left to right: Louise Simmons, Stephanie Livesey, Louise Boone and Helen Hobson. Lois Alley was not available for a picture.

Winning in the Mixed Double event were Linda McNeil and James W. Halsey, rolling a 1274 handicap score. Maxine and Harold Gunter placed second with a 1266. Edith Duckworth and Elmer Johnson received the scratch trophies and third place money, rolling a 1107/1245.

Congratulations to all the winners! Many special thanks go to Mabel Tyer, tournament director, and to the tournament committee: Ray Smith, Norm Teasley and Laura Walker. Also many thanks to Mary Ellen Smith, office manager, the hard working office staff, and the volunteer scorekeepers and others who helped make this 1979 All-Carbide Mixed Bowling Tournament successful.

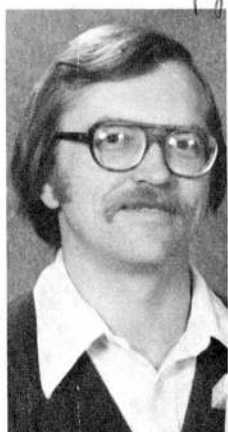
## ORGDP Women. . .

The Starlites now head the ORGDP Women's League. Marilyn Canterbury, Spotters, was Bowler of the Week rolling a 230+191+225=646 handicap series.

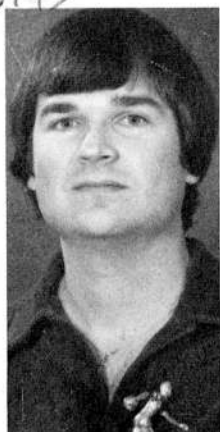
## Y-12 Classic. . .

The Rebels took the lead last week over the All Stars. Dick Huber, of the Rebels, holds the season high handicap series with a 678. Wayne Groppe, of the Ridgers, holds the high handicap game with 277.

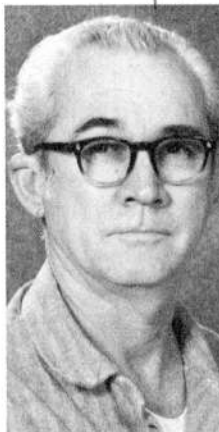
(More on next page)



Collins Smith  
Men's Doubles-Scratch



Halsey McNeil  
Mixed Doubles-Handicap



Felker Ely  
Men's Doubles-Handicap



Duckworth Johnson  
Mixed Doubles-Scratch







## Bluegrass, barbecue highlight A Shift picnic at the Park; all ORGDP invited

"A" shift personnel at ORGDP are inviting the entire plant to their picnic May 5 at the Clark Center Recreation Park. Tickets are on sale during March. They are \$3.50 for adults and \$1.50 for children over six (those under six get in free.)

Featured will be a horseshoe tournament, a hole-in-one contest, a dunking booth, softball, a puppet show and a merry-go-round. Food will include barbecued pork, cole slaw, baked beans, potato chips, hot

dogs and soft drinks. The meal will be served from 4 until 6 p.m.

The Knoxville Grass, called the best "bluegrass" around, will perform from 7 to 10 p.m.

All "A" Shift representatives have tickets, or they may be obtained from W. T. Northcutt Jr., K-3037, MS 343, extension 4-3282.

"A" Shifters are also sponsoring a game night at the Oak Ridge Civic Auditorium from 7 to 9 p.m.

## UCC Mixed...

The Alley Cats and Go Getters are tied in the UCC Mixed League. Larry Fenstermaker holds the high handicap season series for men with a 694. Bonnie Cooper holds the high rolling a 698 for women.

## ORNL A...

The Woodchoppers lead the ORNL "A" League over the ORAU. Weekly prizes went to the Limits for high handicap series with a 2993. G. N. Case, from the Fireballs, rolled a 663 to receive high handicap series.

## ORNL C...

The ORNL "C" League is lead by the Alley Rads with a 140.0 points. The Remkeys rolled a 2930 to receive high weekly handicap series. Tom Akin, of the Remkeys, rolled a 680 to win high handicap series.

## ORNL Ladies...

The Bowling Aces lead this league over the Mousechasers by one point. The Bowling Aces rolled a 2205 handicap series for the weekly high. Charlene Webster, from the Bowling Aces, took top honors with a 210/248 high game; 500/614 handicap series.

## Monday Mixed...

After six weeks of action, we find two teams tied for first place with a 17-7 record. They are 4+4 and Aces. The Roadrunners took high team series handicap with a 2499 with high team game handicap of 867 going to the Alley Cats. Individual honors this time go to Charles Brawner who has high scratch game and series with a 247/627. High handicap games were won by Bob Stockdale for men with a 272 and Ora Brawner for women with a 262. High Averages in the league belong to Bill Muenzer - 175, and Cheryl Womack - 169.

## Road Run Entry Form

Name: \_\_\_\_\_ Age: \_\_\_\_\_

Work Location: \_\_\_\_\_ Phone: \_\_\_\_\_

Home Address: \_\_\_\_\_

Team Name: \_\_\_\_\_

Please fill out completely and return to the Recreation Office, Building 9711-5, MS-001, Y-12, before March 28.

ROAD RUNNER APPLICATION—Saturday, March 31, marks the first road race among Union Carbide employees at the Clark Center Park. Only experienced runners are advised to compete in the action which gets underway at 10 a.m.

# anniversaries...

## PADUCAH

35 YEARS

Ernest W. Evans, Plant Engineering Division; Donald G. Crecelius, Shift Superintendents; J. Channing Hale, Cascade Operations Division; Victor G. Katzel, Technical Services; and Marvin S. Lisso, Plant Engineering Division.

30 YEARS

Ben H. Whiteaker, Technical Services.

25 YEARS

Virgle L. Harvey and Ben W. Doom.

20 YEARS

Ruben L. Holland.

## ORNL

35 YEARS

Richard L. Macklin, Physics; John P. McBride, Chemical Technology; John W. Prewitt, Plant and Equipment; George E. Keller, Finance and Materials; Benjamin Harmatz, Physics; Claude E. Coile, Plant and Equipment; Gerald J. Dixon, Operations; John L. Horton, Instrumentation and Controls; and Norris H. Cooper, Plant and Equipment.

30 YEARS

Fawnee F. Dinsmore, Carl E. Lawson and R. L. Neubert Jr.

25 YEARS

Edward D. Hill, Kermit J. Fletcher, Ralph Payne, Arlis V. Jones, Alfred L. Sutton Jr., Harry A. Todd, Mack W. McGuffin, Robert E. Worsham, Louie A. Massengill Jr. and Lawrence Dresner.

20 YEARS

Harry R. Livesey, Jean W. Humphrys, Jenny M. Rose, Henry M. Ball, John H. Burns and George K. Ford.

## K-25 Tuesday...

The Team is in the lead in the Tuesday Men's League with 407.5 points. The City Slickers are in second with 358.5 points. The weekly scratch series was rolled by H. D. Whitehead Jr., of the Team, with a 567. W. J. Redmond, from the Mishaps, rolled a 226 high scratch game.

## Hi power rifle league...

The Carbide High Power Rifle League schedule for 1979 is tentatively set as follows: April 7, April 28, May 19, June 2, June 23, and July 7, 1979. All matches are on Saturday morning. They will be held at the Oak Ridge Sportsmen's Association. Interested Carbide employees should contact the Recreation Department, 4-1597, for details.

## South Hills golf...

The Recreation Department is now calling for new and old teams that are interested in golfing in the Carbide South Hills Golf League for the 1979 season. The league will play on Tuesday and Thursday this year instead of Monday and Thursday. Captains should call the Recreation Office at 4-1597 to enter a team.

## Paducah swim program

The Paducah Plant plans to sponsor the annual swim program again in 1979. A program coordinator is needed to supervise the sessions from June through August. Anyone interested in assisting with the program may call Darlene Mazzone, Bell 208.

## Chem Tech dance

The Chemical Technology Division's 29th annual St. Patrick's Day Dance will be held March 23, at the Knights of Columbus Hall on Idlewood Lane in West Knoxville. The social hour begins at 8 p.m., and the White Brothers Band will play a variety of music from 9 p.m. until 1 a.m.

Tickets are available to Division employees at \$6 each and may be purchased from each section's secretary. For further ticket or table reservation information, please call Lisa Dearen at 4-6600 or Brad Patton at 6-0603.

## Talent Show...

Many Nuclear Division employees are participating in the upcoming Roane County Annual Talent Show. It will be staged Friday, March 23, at the Roane State Community College. Show times are 7 and 8:30 p.m., with one ticket good for either or both events.

Ray and Margaret Stewart, ORGDP, are again co-chairing the special event with the entire proceeds going to the Roane County Unit of the American Cancer Society. Begun in 1974, the show raised \$200 for the Cancer Fund, and last year netted in excess of \$5,000.

The talent acts will include magic, pantomime, singing and dancing. Advance tickets for the gala are \$2 and may be obtained from businesses throughout the Roane County area. They will be \$2.50 at the door.





**BARRIER DIVISION CONTRIBUTIONS**—"C" Shift employees in the Barrier Division at ORGDP recently received the Employee's Safety Award, for working an entire year without a first aid or recordable injury. In the front row, from left, are Allen Shockley, Calvin Montgomery, Edna Knaff, Earlene Weaver, Martha Dickey, Bill McCluen and Elmer Johnson, area supervisor. In the back row are Bob Osborne, shift supervisor; Walter Humphreys, Mary Millins, Betty Jackson, Oliver Way, Mike Stair, Donald Woodard, Barbara Phillips and Ken Delius, shop coordinator.



**D SHIFT EMPLOYEES**—Also receiving the Employee's Safety Award in the Barrier Division were "D" Shift employees. In the front row, from left, are James Dillon, shift supervisor; Kyle Young, Betty Fischer, Lucy Walker, Carl Smith, Ronald Shrader and Elmer Johnson, area supervisor. In the rear are Ken Delium, shop coordinator; Evin Goins, Charles Selvidge, Clyde Clemmons, Herman Studdon, Mary McClure and Roberta Wright. Absent were William Hooks and Patsy Melton.

## safety scoreboard

Time worked without a lost-time accident through March 1:

ORGDP.....	79 Days	2,562,566 Employee-Hours
Paducah.....	202 Days	2,500,000 Employee-Hours
ORNL.....	143 Days	4,295,139 Employee-Hours
Y-12 Plant.....	323 Days	10,219,000 Employee-Hours

## wanted. . .

### Y-12 PLANT

**CARPOOL MEMBERS** from Woodland area, Oak Ridge, to North or Biology Portals, straight day. T. E. Verner, plant phone 4-0218, home phone Oak Ridge 482-2316.

**VAN POOL RIDERS** from West Knoxville-Westtown area to Cedar Bluff, to East, North or Central Portals, straight day. C. W. Greene, plant phone 4-0437, home phone Knoxville 690-3762.

**CAR POOL RIDER** from Paper Mill Road, Middlebrook Pike area, Knoxville, to East, North or Central Portal, straight day. Bill Nelson, plant phone 4-0571, home phone Knoxville 584-9453.

**RIDE** from Robby's Pancakes, West Knoxville, to Bear Creek Portal, straight day. C. T. Angel, plant phone 4-0199, home phone Knoxville 690-3805.

**TWO VAN POOL RIDERS** from Maryville to North, East or Central Portal, straight day. G. D. Coppenger, plant phone 4-1380, home phone Maryville 983-5939.

## division death. . .



Mr. Blue

**Charles E. Blue**, ORNL's Plant and Equipment Division, died February 20 at his 1225 Holston Park Road, Knoxville, home. Mr. Blue was a 17-year veteran of Union Carbide, having joined ORNL in 1962.

Survivors include daughters, Vanessa Crump and Dorcas Blue; step-son, Greg; mother, Ollie M. Blue; five sisters, Mildred Kirk, Betty E. Smith, Marva Anderson, Davelene Austin, and Sarah Jackson; and a brother, Jesse.

Memorial services were held in Knoxville. The family has requested that any memorials be made to the Knoxville College Scholarship Fund, 901 College Street, Knoxville, Tenn. 37921.

### ORNL

**RIDE** from Callahan Road, Clinton Highway area, to East Portal, 8-4:30. Tom Rice, plant phone 4-7089, home phone 947-8709.

**RIDERS** for NEW VAN POOL from West Knoxville area to any portal, 8-4:30. Dean Treadway, plant phone 4-6580, home phone 584-4879.

**CAR POOL MEMBERS** from Carnegie and Colby Streets area, Oak Ridge, to East Portal, 8-5. Leon Klatt, plant phone 4-4919, home phone 483-5004.

**JOIN** or **FORM** CAR POOL from Clinton, via Edgemoor Road, to East Portal, 8-4:30. Linda Maddox, plant phone 4-5448, home phone 457-5162.

### ORGDP

**RIDE** from Powell, straight day, to Portals 2, 3 or 4. L. M. Ownby, plant phone 6-2073, home phone Powell 938-3743.

## Next issue. . .

The next issue will be dated March 22. The deadline is March 11.

## Plaudits for safe operations

(Continued from page 1)

includes films and slide-tape programs, and an improved safety communication system which involves the use of 48 moving slogan machines placed throughout the plant to relay safety messages to employees.

A special campaign is underway at ORGDP to prevent injuries from falls during the winter months. Several serious falls on ice and snow were suffered in the 1977-78 winter.

Safety awareness was marked in the Paducah Plant recently, as the Materials Department's 62 employees, Dave D. Barclay, division superintendent, John F. Floyd, department head, celebrated 14 years of safe work on the job. "The number of employees in our department has more than doubled over the past few years," Floyd said, "And we've been working around the clock since 1975. Prior to that time, we worked a 40-hour week."

The department receives and handles approximately 99 percent of all material arriving at the Paducah Plant.

Lee M. "Bud" Tilford, a 27-year employee, feels continual safety training has played a large part in the department's achievement. "In watching new men on the job, I see the same mistakes I once made, which reinforces my own safety awareness," he said.

### Check for hazards

Elza Youngblood, another 27-year veteran, suggested, "Before starting a job, I check for any possible hazards in getting it done. I try to work as safely as I can."

"Naturally, I try to look out for myself," added Otis Titsworth, "But I also think each of us tries to look out for one another."

"I am very pleased and extremely proud of the Paducah Plant's outstanding occupational safety experience in 1978," said Clayton D. Zerby, plant manager. "We should, in a positive way, stress our goals and achievements and continue to demonstrate genuine management concern and commitment to the improved safety performance both on and off the job. Together, we must be prepared to meet the challenges of 1979 in our own industry and the corporation."

"The past few years have been outstanding at ORNL," Clyde Hopkins, executive director, said. "Our frequency rate has consistently gone down for the past five years, with the exception of 1978. We experienced three lost-time injuries last year, however, compared to only one in each of the two previous years. Ideally, that figure should be zero."

Added to all the accolades is the advantage of working under safe conditions with other employees who care about their own and others' welfare.

## Water ski addicts. . .

Water ski addicts are organizing a Water Ski Club for the Oak Ridge area. An organizational meeting will be called sometime in March. Interested skiers should contact either Mike Kittel, Knoxville 690-1226; or Scott Boykin, Oak Ridge 482-5081.



### UNION CARBIDE CORPORATION

NUCLEAR DIVISION  
P.O. BOX Y, OAK RIDGE, TENNESSEE 37830

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